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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A dental composition[[,]] comprising
 - a) one or a mixture of at least one phosphoric acid ester[[s]] bearing having at least one substituent[[s]] with one an ethylenically unsaturated moiety, wherein the substituent is bonded to the phosphorous atom; on the phosphorus atom;
 - b) one or a mixture of at least one phosphoric acid ester[[s]] bearing having at least one substituents, wherein one of the substituents has with two or more ethylenically unsaturated moieties, wherein the substituent is bonded to the phosphorous atom; on the phosphorus atom and
 - c) initiators, at least one initiator.
 - d) optionally stabilizers,
 - e) unsaturated monomers
 - f) optionally unsaturated polymers and/or prepolymers
 - g) optionally a solvent,
 - h) optionally a fluoride release agent,
 - i) optionally a non-reactive inorganic filler,
 - j) optionally a photobleachable colorant, wherein the term "on the phosphorus atom" means that the ethylenically unsaturated moiety/moieties is/are present in one of the substituents bonded to the phosphorus atom.
- 2. (new) The dental composition of claim 1, further comprising at least one additional component selected from the group consisting of stabilizers, unsaturated monomers,

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unsaturated polymers or prepolymers, solvents, fluoride release agents, non reactive inorganic fillers, and photobleachable colorants.

2.3. (currently amended) The dental composition according to claim 1, wherein component (a) is represented by formula (I)

$$X_{2} \xrightarrow{P} - X_{1}$$

$$0$$

$$R_{1}$$

$$0$$

$$R_{2}$$

$$0$$

$$0$$

$$0$$

$$0$$

wherein R₁ [[=]]is selected from the group consisting of (i) an alkylene having 1 to 4 C atoms, (ii) [[or]] a bivalent organic group having 1 to 4 carbon atoms composed of two or more hydrocarbon residues bonded to one another by one or more ether or thioether linkages, and (iii) [[or]]an aryl, each optionally substituted with OH;

wherein R_2 [[=]] \underline{is} H, \underline{or} CH₃;

wherein X_1 [[=]]is OH or halogen; and

wherein X_2 [[=]]is X_1 or -O-R₁-OOC-CR₂=CH₂,

and component (b) is represented by formula (II),

$$X_{2}$$
— P - X_{1}
 O
 $CR_{3}R_{4}R_{5}$

(II)

wherein R₃, R₄, and R₅ [[=]] are independentally selected from (i) H, (ii) linear or branched alkyl groups having 1 to 4 carbon atoms, optionally substituted with OH, (iii) aryl groups,

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optionally substituted with OH, <u>and (iv)</u> organic groups having 5 to 15 carbon atoms composed of 2 to 6 saturated or ethylenically unsaturated hydrocarbon residues bonded to one another by one or more ether, thioether, ester, thioester, thiocarbonyl, amide, urethane, carbonyl and/or sulfonyl linkages, each optionally substituted with OH,

wherein at least 2 of the groups R₃, R₄, and R₅ comprise at least 1 group according to formula (III)

or

at least 1 of the groups R_3 , R_4 , and R_5 comprises at least 2 groups according to formula (III)

(III)

and wherein $X_2 = X_1$ or $-O-CR_3R_4R_5$ or $-O-R_1-OOC-CR_2=CH_2$.

- 3.4. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1, wherein component (b) is present in an amount of about 1 to about 500 parts by weight based on about 100 parts by weight of component (a).
- 4.5. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1, wherein the total amount of components (a) and (b) in the composition is about 10 to about 90 parts by weight.
- 5.6. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 2, wherein thea polymer and/or prepolymer of component (f) is present in an amount of about 0 to about 30 parts by weight.

- 6.7. (currently amended) The dental composition according to claim [[5]]6, wherein the prepolymer does not contain any hydroxy, acidic or ionic groups.
- 7.8. (currently amended) The dental composition according to claim 5 or 66 or 7, wherein the prepolymer has an Mw in the range of about 600 to about 20000.
- 8.9. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1 having a contact angle versus deionized water of more than about 15°, if the composition is cured in the presence of air, and of more than about 50°, if the composition is cured in the absence of air.
- 9.10. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1 having an adhesion to enamel and/or dentin in the range of about 2 to about 15 MPa.
- 10.11. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1 having a water uptake of less than about 5 % by weight with respect to the cured composition measured after having immersed the composition for 5 h in water of 37°C.
- 11.12. (currently amended) The dental composition according to claim 10 having an enamel adhesion of at least about 5 MPa.
- 12.13. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1, wherein component (a) is selected from the group consisting of 2-methacryloyloxyethyl phosphate, 2-methacryloyloxypropyl phosphate, 3-

methacryloyloxypropyl phosphate, 2-methacryloyloxybutyl phosphate, 3-methacryloyloxybutyl phosphate, 5-methacryloyloxy-3-oxa-pentyl phosphate, bis(2-methacryloyloxypropyl) phosphate, bis(3-methacryloyloxypropyl) phosphate, bis(2-methacryloyloxybutyl) phosphate, bis(3-methacryloyloxybutyl) phosphate, bis(4-methacryloyloxybutyl) phosphate, bis(5-methacryloyloxybutyl) phosphate, bis(4-methacryloyloxybutyl) phosphate, bis(5-methacryloyloxy-3-oxa-pentyl) phosphate, phosphate, [[or]]and mixtures thereof.

13.14. (currently amended) The dental composition according to anyone of the preceding elaimsclaim 1, wherein component (b) is selected from the group consisting of glycerol-1,3-dimethacrylate-2-phosphate, glycerol-1,2-dimethacrylate-3-phosphate, bis(glycerol-1,3-dimethacrylate) phosphate, (glycerol-1,2-dimethacrylate) phosphate, (glycerol-1,2-dimethacrylate)(glycerol-1,3-dimethacrylate) phosphate, (trimethylolpropane dimethacrylate) phosphate, (trimethylolethane dimethacrylate) phosphate, bis(trimethylolethane dimethacrylate) phosphate, pentaerythritol trimethacrylate phosphate [[or]]and mixtures thereof.

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- 15 44. (cancelled)
- 16 45. (cancelled)
- 17 <u>15.16.</u> (currently amended) <u>Method A method</u> for preparing a <u>dental</u> composition according to anyone of claims 1 to 14 comprising the step of mixing the following components:
 - (a) at least one phosphoric acid ester having at least one substituent with one ethylenically unsaturated moiety wherein the substituent is bonded to the phosphorous atom,
 - (b) at least one phosphoric acid esters having at least one substituent[[s,]] bonded to the phosphorous atom; two or more ethylenically unsaturated moieties, wherein the substituent is, and
 - (c) at least one initiator.